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PATENT

Gp 2772

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application

Art Unit: 2412

EINKAUF et al.

Examiner: Unassigned

Application No.: 08/803,461

Filed: February 20, 1997

#2 IDS
Hayner 3/4/98

Title: METHOD AND APPARATUS FOR ADJUSTING GRAPHICS PROCESSING PROCEDURES BASED ON A SELECTABLE SPEED/QUALITY GAUGE

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8

I hereby certify that this correspondence is being deposited in the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Assistant Commissioner for Patents, Washington, D.C. 20231 on 2/5/98

Steven A. Shaw

(Signature)

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Listed below in Appendix A or on an attached Form PTO-1449 is information known to Applicant. A copy of each listed publication and U.S. and foreign patent, except for pending U.S. applications, is being submitted herewith, along with a concise explanation of information in a foreign language, if any, pursuant to 37 C.F.R. '1.97-1.98.

If form PTO-1449 is enclosed, the Examiner is requested to initial and return it in accordance with MPEP '609. Applicant respectfully request that the listed information be considered by the Examiner and be made of record in the above-identified application.

This statement is not intended to represent that a search has been made or that the information cited in the statement is, or is considered to be, material to patentability as defined in '1.56.


This statement qualifies under 37 C.F.R. '1.97, subsection b because to the best knowledge of the Applicant; It is being filed before the mail date of the first Office Action on the merits. If this statement is received by the USPTO after the mailing date of the first Office Action; the Commissioner is hereby authorized to charge Applicant's deposit account number 03-2028 for the fee of \$240 as required 37 C.F.R. '1.97, subsection c and set forth in 37 C.F.R. '1.17(p).

Respectfully submitted,

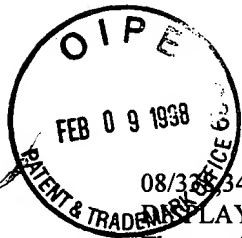
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all considered
8/13/98
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~~ABANDONED~~

08/328,341

11/14/1994

DISPLAY LIST PROCESSOR FOR OPERATING IN PROCESSOR AND COPROCESSOR MODES

Thomas A. Dye

U.S. Pat. No. 5,706,478

08/574,835

12/19/1995

METHOD AND APPARATUS FOR PREFETCHING A NEXT INSTRUCTION USING DISPLAY LIST PROCESSING IN A GRAPHICS PROCESSOR

Michael K. Larson

08/574,889

12/19/1995

METHOD AND APPARATUS FOR OBJECT IDENTIFICATION AND COLLISION DETECTION IN THREE DIMENSIONAL GRAPHICS SPACE

Goran Devic

U.S. Pat. No. 5,812,138

08/670,299

06/27/1996

TEXTURE MAP PACKING

Christopher W. Shaw

08/671,138

06/27/1996

~~PARTIAL POLYGON DRAWING WITH XY MAPPED MEMORY~~ OBJECT REFERENCED MEMORY SEGMENTATION.

Michael K. Larson

Daniel P. Wilde

U.S. Pat. No. 5,798,763

08/671,977

06/28/1996

IMPROVED SYSTEM AND METHOD OF RENDERING POLYGONS INTO A PIXEL GRID

Michael K. Larson

Daniel P. Wilde

08/672,613

06/28/1996

PARALLEL MULTIPLY ACCUMULATE ARRAY CIRCUIT

Thomas M. Ogletree

U.S. Pat. No. 5,784,306

08/672,620

06/28/1996

REGISTER SET REORDERING FOR A GRAPHICS PROCESSOR BASED UPON THE TYPE OF PRIMITIVE TO BE RENDERED

Michael K. Larson

Pat Harkin

U.S. Pat. No. 5,793,386

08/672,642

06/28/1996

EMBEDDING A TRANSPARENCY ENABLE BIT AS PART OF A RESIZING BIT BLOCK TRANSFER OPERATION

Thomas A. Dye

abandoned.

08/673,774

06/27/1996

OBJECT REFERENCED MEMORY MAPPING

Michael K. Larson

U.S. Pat. No. 5,758,128

08/691,762

08/02/1996

METHOD AND APPARATUS FOR DYNAMIC XY TILED TEXTURE CACHING

Daniel P. Wilde

all considered
8/13/88
cr

~~APPENDIX A~~

08/720,395 09/30/1996
DYNAMIC SWITCHING OF TEXTURE MIP-MAPS BASED ON DEPTH USING A SOFTWARE GRAPHIC
ENGINE
Gautam P. Vaswani

08/720,396 09/30/1996
VIRTUAL ADDRESSING FOR SUBSYSTEM DMA
Timothy J. McDonald
Michael K. Larson
Tom Albers

08/724,566 09/30/1996
A METHOD OF OBTAINING A BUFFER OF CONTIGUOUS MEMORY AND BUILDING A PAGE TABLE
Goran Devic

08/724,616 09/30/1996
DYNAMIC SWITCHING OF TEXTURE MIP-MAPS BASED ON PIXEL DEPTH VALUE
Gautam P. Vaswani

08/724,618 09/30/1996
INSTRUCTION FORMAT FOR ENSURING SAFE EXECUTION OF DISPLAY LIST
Goran Devic

08/773,921 12/30/1996
TILED LINEAR HOST TEXTURE STORAGE
Daniel P. Wilde
Timothy J. McDonald

08/774,787 12/30/1996
NON-HOMOGENOUS 2ND ORDER PERSPECTIVE TEXTURE MAPPING USING LINEAR
INTERPOLATION PARAMETERS
Gautam P. Vaswani
Thomas A. Dye
Michael K. Larson

08/777,556 12/30/1996
CIRCUIT FOR DETERMINING NON-HOMOGENOUS SECOND ORDER PERSPECTIVE TEXTURE
MAPPING COORDINATES USING LINEAR INTERPOLATION
Gautam P. Vaswani
Daniel P. Wilde
Thomas A. Dye
Michael K. Larson

08/777,557 12/30/1996
IMPROVED DITHERING METHOD AND APPARATUS USING RAMP PROBABILITY LOGIC
Daniel P. Wilde

08/777,558 12/30/1996
METHOD FOR COMPUTING PARAMETERS USING IN A NON-HOMOGENOUS SECOND ORDER
PERSPECTIVE TEXTURE MAPPING PROCESS USING INTERPOLATION
Mark A. Einkauf
Michael K. Larson

all considered
8/13/98
CV

08/803,460 02/20/1997

METHOD FOR TRIANGLE SUBDIVISION IN COMPUTER GRAPHICS TEXTURE MAPPING TO
ELIMINATE ARTIFACTS IN HIGH PERSPECTIVE POLYGONS

Mark A. Einkauf

~~08/803,461 02/20/1997~~

~~METHOD AND APPARATUS FOR ADJUSTING GRAPHICS PROCESSING PROCEDURES BASED ON A
SELECTABLE SPEED/QUALITY GAUGE~~

~~Mark A. Einkauf~~

~~Thomas A. Dye~~

~~Goran Devic~~

08/811,491 03/05/1997

TEXTURE MAP STORAGE WITH UV REMAPPING

Daniel P. Wilde

08/818,053 03/14/1997

METHOD AND APPARATUS FOR SHORTEN DISPLAY LIST INSTRUCTIONS

Goran Devic

08/828,528 03/31/1997

A METHOD AND SYSTEM FOR EFFICIENT REGISTER SORTING FOR THREE DIMENSIONAL
GRAPHICS

Thomas M. Ogletree

Mark A. Einkauf

08/829,758 03/31/1997

TEXTURE MAP SCALING IN THE FREQUENCY DOMAIN

Thomas M. Ogletree

Thomas A. Dye

08/831,283 03/31/1997

DYNAMICALLY SELECTABLE TEXTURE FILTER FOR COMPUTER GRAPHICS

Gautam P. Vaswani

Daniel P. Wilde

Thomas A. Dye

08/832,789 04/04/1997

METHOD FOR INDIRECT ADDRESSING IN RISC CORE

Thomas M. Ogletree

08/852,468 05/07/1997

METHOD AND APPARATUS FOR INTERNALLY CACHING THE MINIMUM AND MAXIMUM XY PIXEL
ADDRESS VALUES IN A GRAPHICS SUBSYSTEM

Daniel P. Wilde

08/854,654 05/12/1997

DYNAMIC PIPELINE FOR A PROCESSOR

Thomas A. Dye

U.S. Pat. No. 5,778,250

all considered
8/13/98
CV

~~SECRET~~

08/856,546 05/15/1997
SOFTWARE-BASED DITHERING METHOD AND APPARATUS USING RAMP PROBABILITY LOGIC
Gautam Vaswani
Daniel P. Wilde
Thomas Dye

08/892,073 07/14/1997
METHOD OF SYNCHRONIZING MULTIPLE MEMORY BUFFERS FOR GRAPHICS ANIMATION
Thomas A. Dye
Bradley A. May
Mike X. Cui

08/932,402 09/17/1997
CHROMA KEYED SPECULAR TEXTURE MAPPING IN A GRAPHICS PROCESSOR
Christopher W. Shaw
Goran Devic

08/932,760 09/17/1997
SELECTABLE MODE SMOOTHING TEXTURE FILTER FOR COMPUTER GRAPHICS
Goran Devic
Christopher W. Shaw

08/944,946 10/02/1997
MASTER INPUT/OUTPUT PROCESSING
Michael K. Larson
Timothy J. McDonald

08/993,679 09/19/1997
OPTIMIZED FIFO MEMORY
Patrick A. Harkin

08/438,860 05/10/95
CONTROLLING A REAL-TIME RENDERING ENGINE USING A LIST-BASED
CONTROL MECHANISM

now U.S. Pat. No. 5,798,762

=> s polygon# and (speed or quality)

```
      15538 POLYGON#
      572580 SPEED
      285143 QUALITY
L1      7756 POLYGON# AND (SPEED OR QUALITY)
```

=> s linear texture or perspective texture

```
      341556 LINEAR
      35465 TEXTURE
          8 LINEAR TEXTURE
            (LINEAR(W)TEXTURE)
      704400 PERSPECTIVE
      35465 TEXTURE
          4 PERSPECTIVE TEXTURE
            (PERSPECTIVE(W)TEXTURE)
L2      11 LINEAR TEXTURE OR PERSPECTIVE TEXTURE
```

=> s l1 and l2

L3 6 L1 AND L2

=> d 1-6

1. 5,793,386, Aug. 11, 1998, Register set reordering for a graphics processor based upon the type of primitive to be rendered; Michael Kerry Larson, et al., 345/522, 501, 513
2. 5,704,024, Dec. 30, 1997, Method and an apparatus for generating reflection vectors which can be unnormalized and for using these reflection vectors to index locations on an environment map; Douglas Voorhies, et al., 345/426 [IMAGE AVAILABLE]
3. 5,680,525, Oct. 21, 1997, Three-dimensional graphic system with an editor for generating a texture mapping image; Toshio Sakai, et al., 345/430 [IMAGE AVAILABLE]
4. 5,544,292, Aug. 6, 1996, Display apparatus having a display processor for storing and filtering two dimensional arrays forming a pyramidal array, and method of operating such an apparatus; Paul A. Winsor, 345/430, 507 [IMAGE AVAILABLE]
5. 5,495,563, Feb. 27, 1996, Apparatus for converting pyramidal texture coordinates into corresponding physical texture memory addresses; Paul A. Winsor, 345/430 [IMAGE AVAILABLE]
6. 4,586,038, Apr. 29, 1986, True-perspective texture/shading